

Solis-(215-255)K-EHV-5G

Solis Three Phase Inverters



360 degree

Model:

800V: Solis-215K-EHV-5G-PLUS Solis-250K-EHV-5G Solis-250K-EHV-5G-PLUS
Solis-255K-EHV-5G Solis-255K-EHV-5G-PLUS

Efficient

- ▶ 9/12/14 MPPTs, max. efficiency 99.0%
- ▶ > 150% DC/AC ratio
- ▶ High power tracking density 60MPPT/MW
- ▶ Compatible with 500W+ bifacial modules

Smart

- ▶ Night SVG function
- ▶ Intelligent string monitoring, smart I-V curve scan
- ▶ Remote firmware upgrade with simple operation

Safe

- ▶ IP66
- ▶ Built-in PID recovery for better module performance
- ▶ Fuse free design, safe and maintenance free
- ▶ Globally recognised branded componentry for longer life

Economic

- ▶ Power line communication (PLC) (optional)
- ▶ DC side supports "Y" connector
- ▶ Supports aluminium wire access to reduce cost
- ▶ Reserve DC energy storage access

Datasheet

Model Name	Solis-215K-EHV-5G-PLUS	Solis-250K-EHV-5G	Solis-250K-EHV-5G-PLUS	Solis-255K-EHV-5G	Solis-255K-EHV-5G-PLUS
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Input DC

Max. input voltage	1500 V				
Rated voltage	1080 V				
Start-up voltage	500 V				
MPPT voltage range	480-1500 V				
Max. input current	9*30 A	14*26 A	12*30 A	14*26 A	12*30 A
Max. short circuit current	9*50 A	14*40 A	12*50 A	14*40 A	12*50 A
MPPT number/Max. input strings number	9/18	14/28	12/24	14/28	12/24

Output AC

Output power	215 kVA	250 kVA	255 kVA
Rated grid voltage	3/PE, 800 V		
Grid voltage range	640-920 V		
Rated grid frequency	50 Hz / 60 Hz		
Max. output current	155.2 A	180.4 A	184.0 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
DC injection current	<0.5% In		

Efficiency

Max. efficiency	99.0%				
EU efficiency	98.8%	98.7%	98.8%	98.7%	98.8%

Protection

DC reverse-polarity protection	Yes
Short circuit protection	Yes
Output over current protection	Yes
Surge protection	DC Type II / AC Type II
Grid monitoring	Yes
Anti-islanding protection	Yes
Temperature protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Night time SVG function	Yes
Integrated PID recovery	Yes
Integrated DC switch	Yes

General Data

Dimensions (W*H*D)	1125*770*384 mm	
Weight	109 kg	113 kg
Topology	Transformerless	
Self consumption (night)	<2 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
Noise emission (typical)	≤65 dB(A)	
Cooling concept	Intelligent redundant fan-cooling	
Max. operation altitude	4000 m	
Grid connection standard	EN50549, G99, AS4777.2, VDE0126, IEC61727, VDE4110, CEA 2019	
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4	

Features

DC connection	MC4 connector
AC connection	OT terminal (max. 300 mm ²)
Display	LCD
Communication	RS485, Optional: PLC